

SNAPSIL™ CRTV5120 Semi-Conductive Adhesive

Product Description

CRTV5120 is a 1-part, ready to use, silicone rubber sealant recommended for evaluation in applications when electrical semi-conductivity of the sealant is a significant design consideration. On exposure to moisture in the air at room temperature, this adhesive sealant cures to tough, durable, resilient silicone rubber. It utilizes a moisture vapor cure system, which releases an acetic acid vapor from the sealant during cure. SNAPSIL CRTV5120 sealant has a paste-like consistency and only flows with external pressure. It is suitable for horizontal, vertical, and overhead surfaces in a thickness up to 10 mm. Typical applications include gaskets and seals for electronic parts, which need EMI shielding or grounding.

Key Features and Typical Benefits

- Semi-conductive
- Self-adhesion properties
- One component product
- Resistance to high temperatures
- Low temperature flexibility
- Thixotropic paste consistency

Typical Physical Properties

Typical Uncured Properties

Color	Black
Specific Gravity [g/cm ³]	1.06
Tack Free Time [min]	20
Consistency	Soft Spreadable Paste
Application Rate [g/min]	550

Typical properties are average data and are not to be used as or to develop specifications.

Typical Cured Properties (Cured for 7 days at 23°C and 50%RH)

Hardness [Shore A]	35
Tensile Strength [MPa]	2.0
Elongation [%]	250
Shear Adhesion [MPa]	1.0
Surface Resistivity [Ohm]	500

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General Considerations for Use

SNAPSIL CRTV5120 will bond to most clean surfaces with the aid of a primer. These surfaces normally include most metals, glass, ceramic, silicone rubbers, and some rigid plastics. A preliminary check should be made to determine bonding effects for each specific application. For difficult to bond to substrates, use of a primer will usually improve adhesion. The Momentive Performance Materials primers SS4004P, SS4044P, and SS4155 are recommended for use with this sealant/adhesive. Where adhesion is required, surfaces should be thoroughly cleaned with a suitable hydrocarbon solvent such as naphtha, methyl ethyl ketone (MEK), and isopropyl alcohol (IPA) to remove dirt, oil, and grease. The surface should be wiped dry before applying the adhesive/sealant.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling, and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular application.

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